

Figure 1(b)

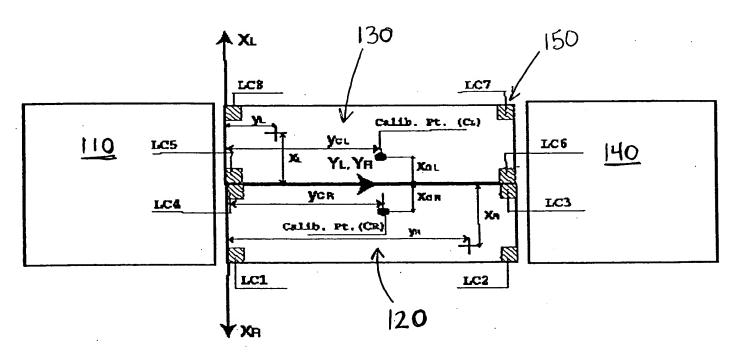
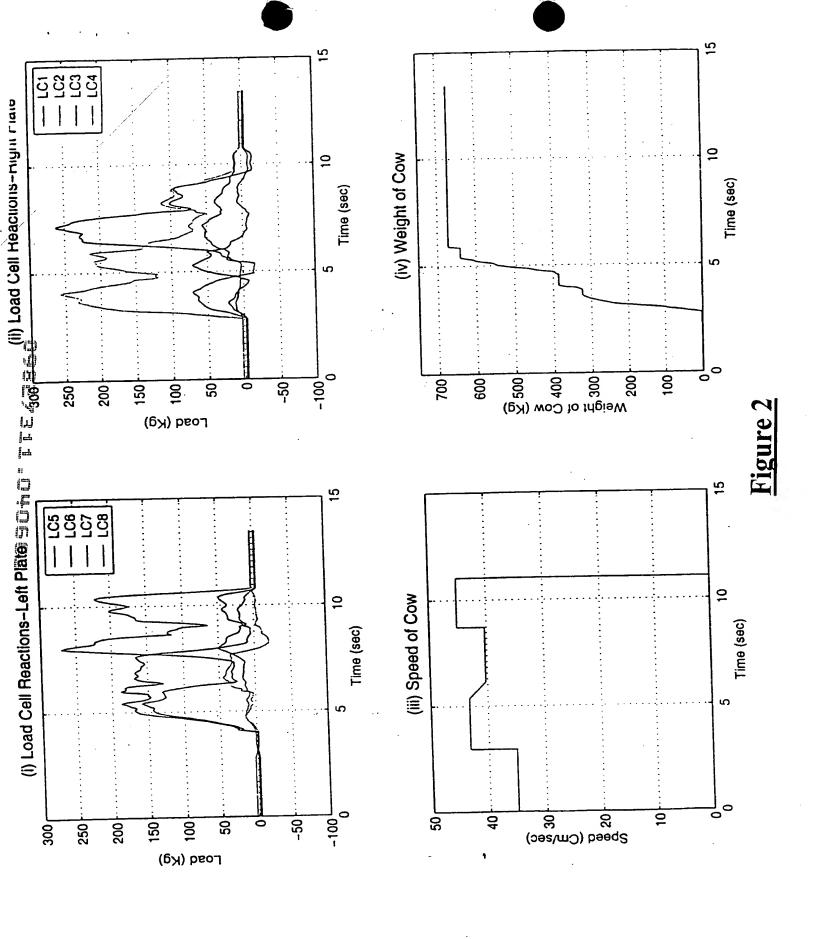
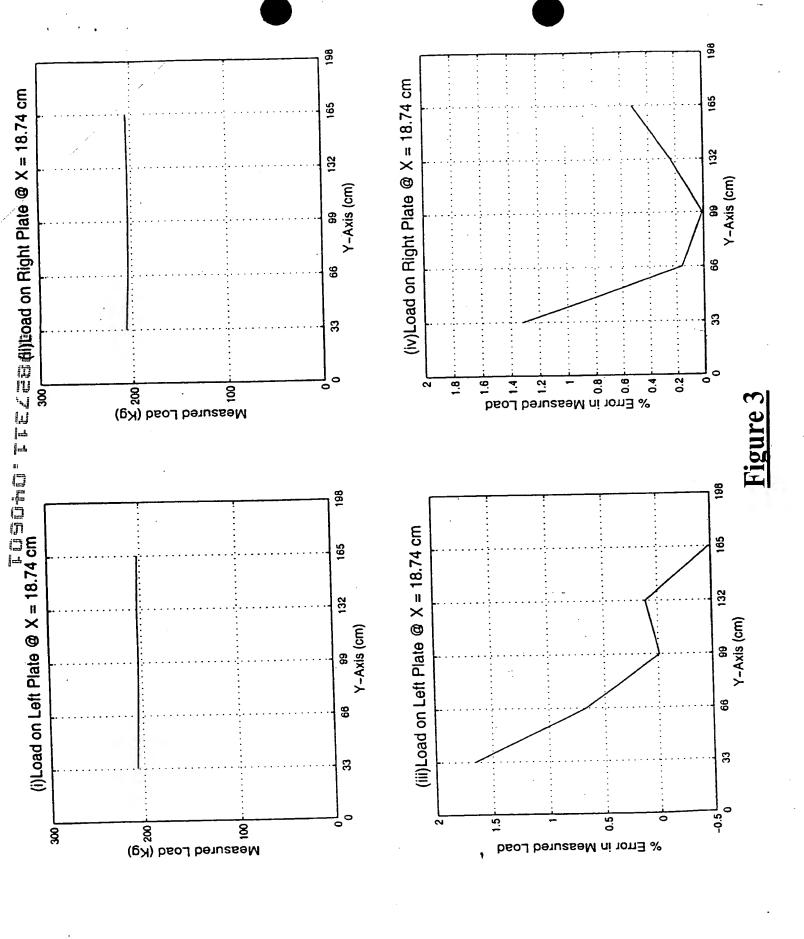
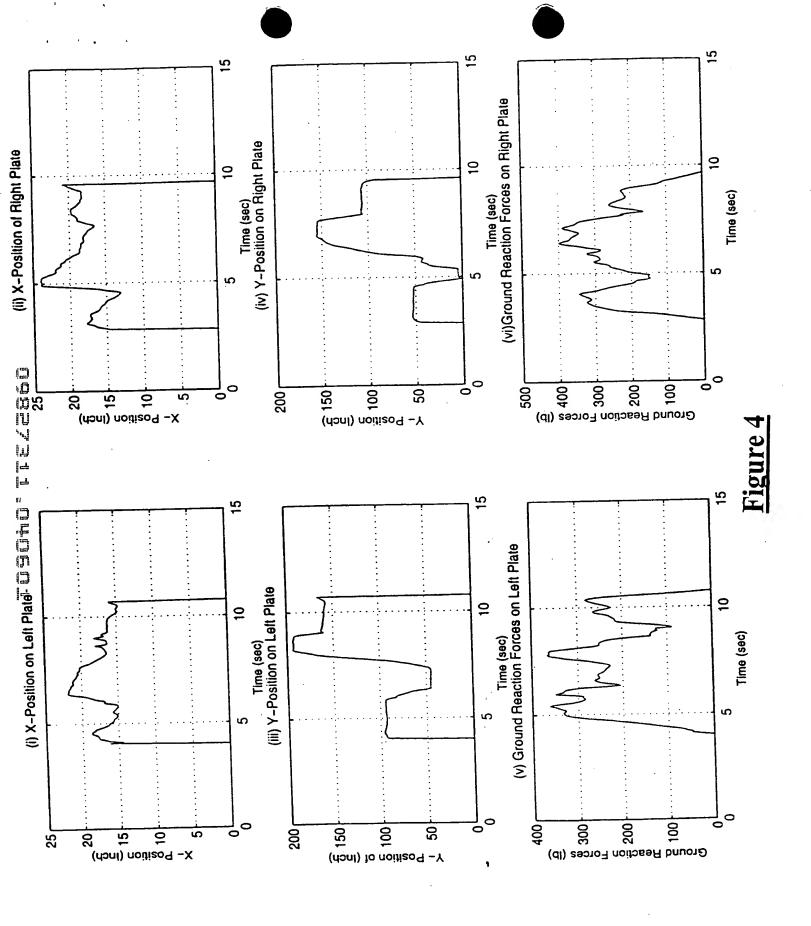
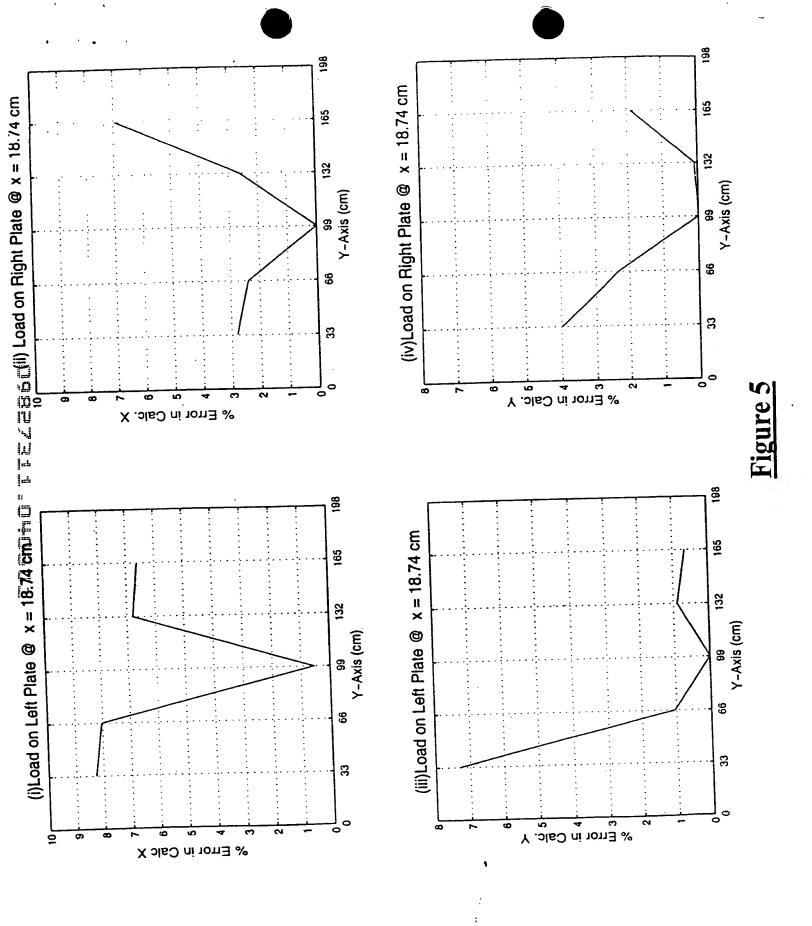


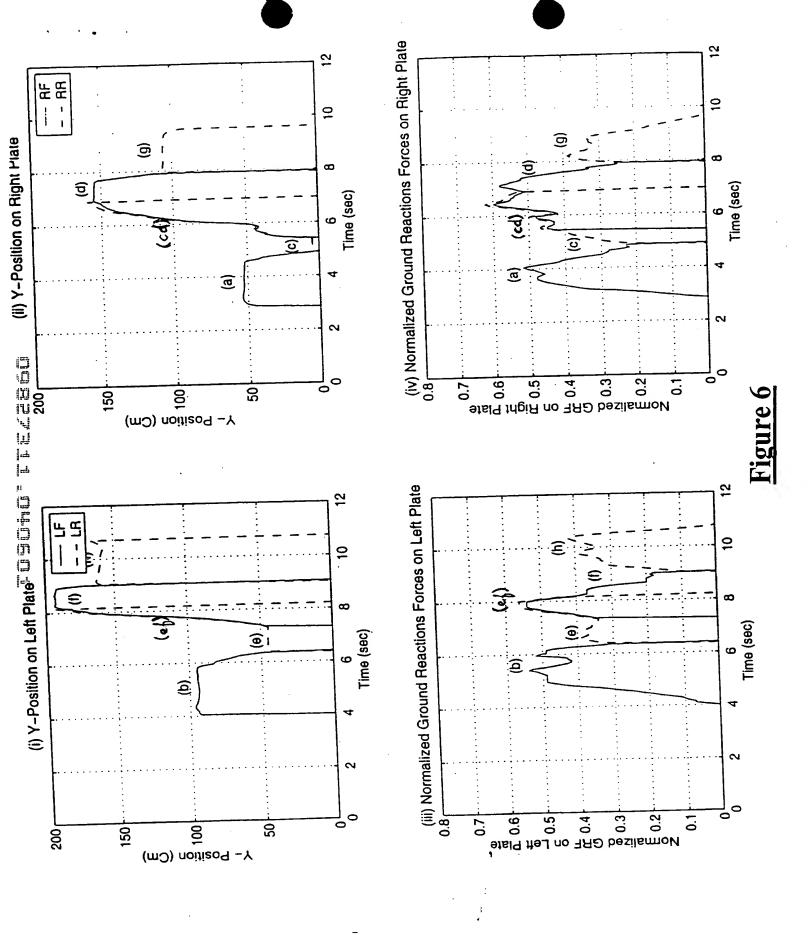
Figure 1(c)

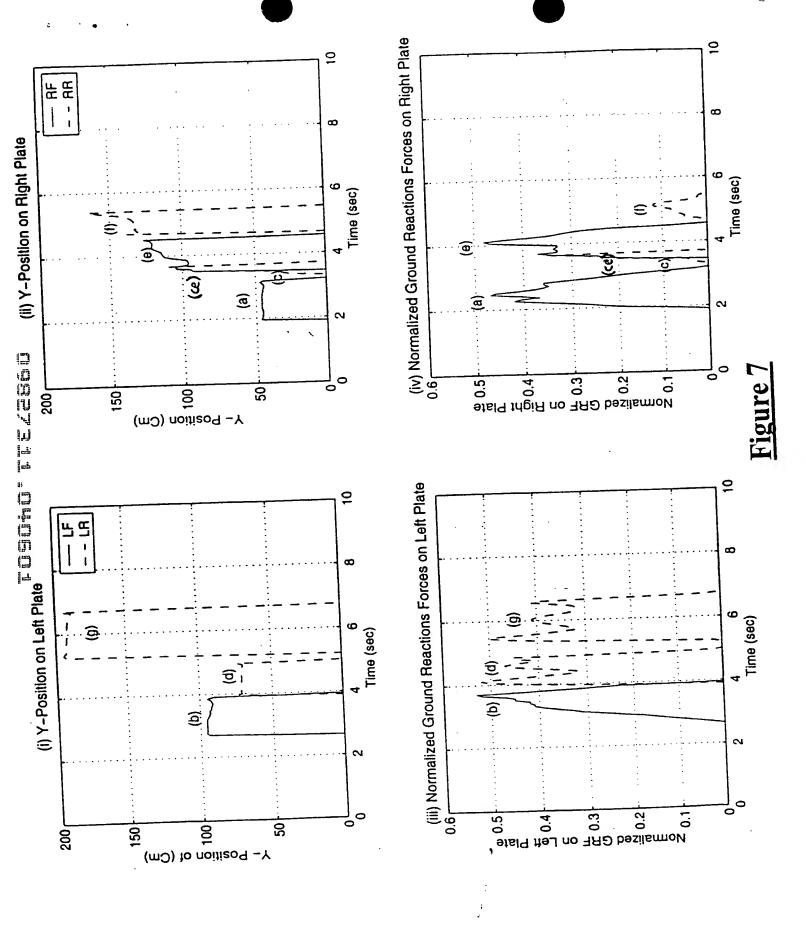












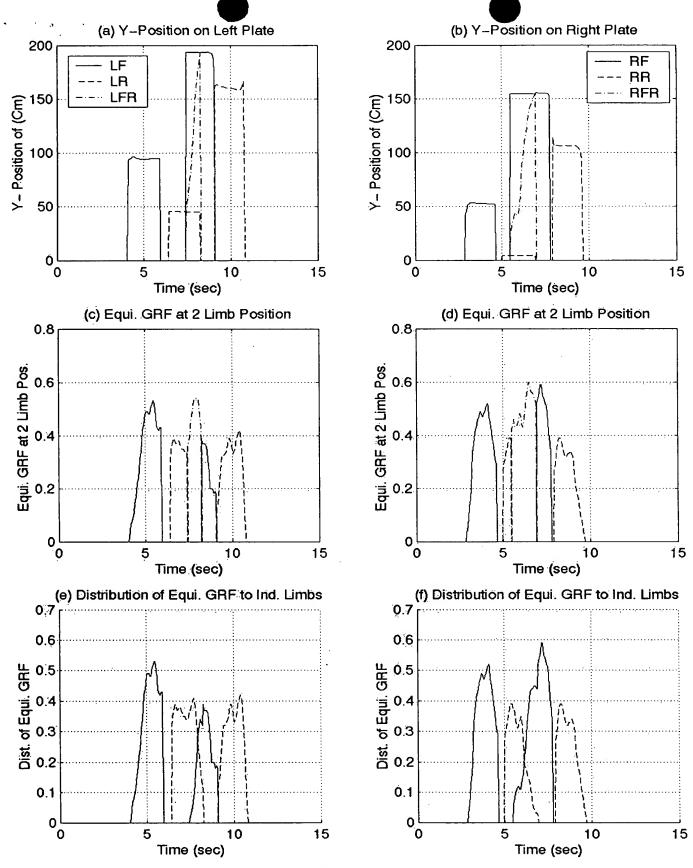
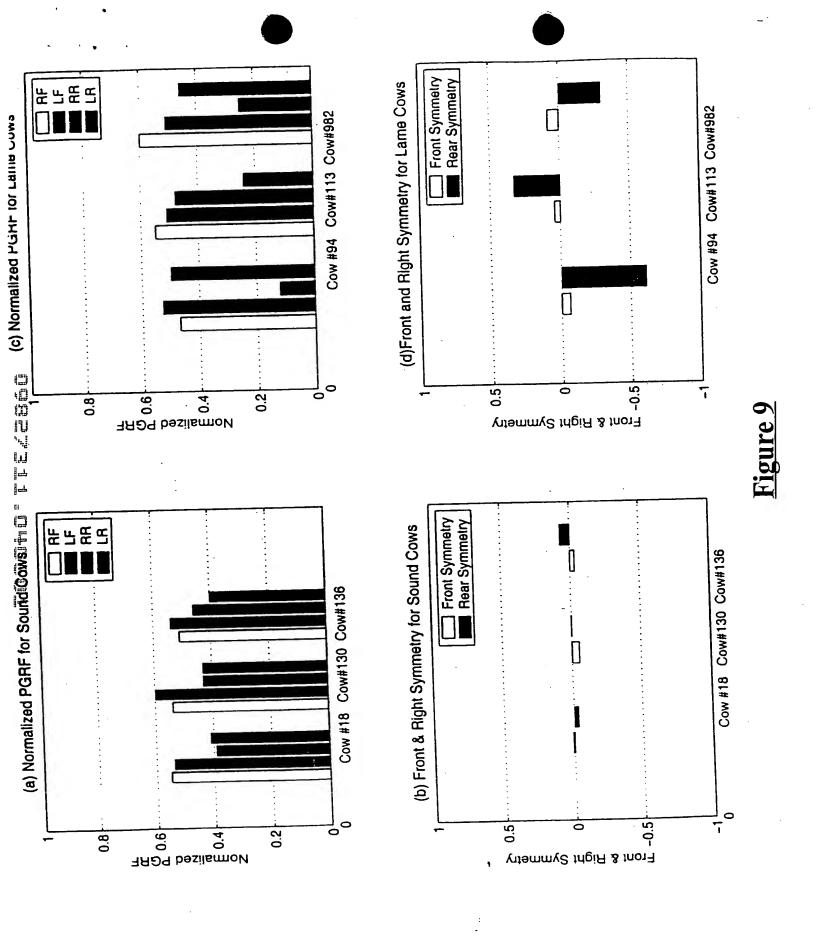
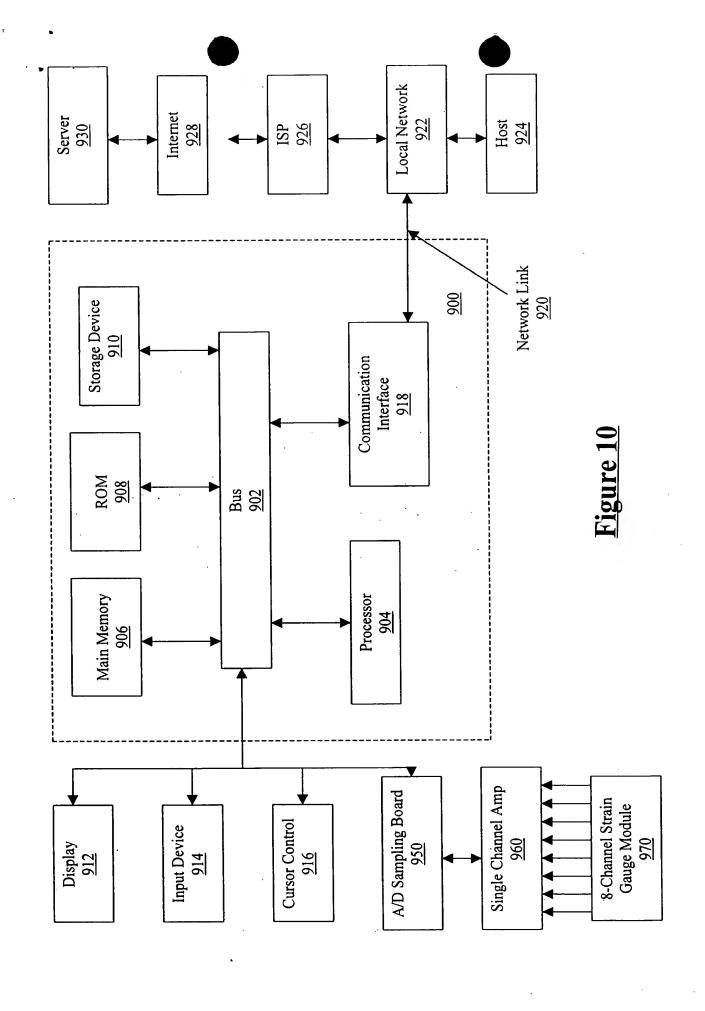


Figure 8





Limb movement variables of Individual Limbs of Sound Cows 973 and 984

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		Right Rear	[RR]	0.44		1.10		0.31	0.29		117	0.35		2.81	
Sound Cow 984		Left Rear	[LR]	0.41		0.92		0.26	0.28		NA	0.41		3.77	
		Right Front	[RF]	0.59		1.10		0.40	0.36		114	0.55		5.32	
Sound Cow 973		Left Front	[LF]	0.56		1:11		0.40	0.36		NA	0.54		5.15	
		Right Rear	[RR]	0.51		0.97		0.35	0.36		NA	0.40		3.34	
		Left Rear	[LR]	0.39		1.00		0:30	0.30		NA	0.37		3.32	
		Right Front	[RF]	0.52		68'0		0.33	0.37		NA	0.47		4.70	
		Left Front	[LF]	0.49		1.00		0.34	0.34		NA	0.47		4.51	
Limb Movement	Variables			Normalized	PGRF	Stance time	(sec)	Impulse (sec)	Normalized	AGRF	Step size (cm)	Energy	(1/sec)	P-energy	(1/sec ²)

Figure 11

Limb movement variables of Individual Limbs of Lame Cows 113 and 982

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Lame Cow 982		Right Rear	[RR]	0.27		0.99	,	0.16	0.17		142	0.20		1.40	
		Left Rear	[LR]	0.36		1.27		0.33	0.26		92	0.30		2.55	
		Right Front	[RF]	0.57		0.97		0.35	0.36		102	0.54		5.14	
		Left Front	[LF]	0.55		1.14		0.40	0.35		96	0.46		4.50	
Lame Cow 113		Right Rear	[RR]	0.41	٠	1.50		0.53	0.36		NA	0.33		2.20	
		Left Rear	[LR]	0.19		1.05	·	0.11	0.10	•	117	0.12		1.04	•
		Right Front	[RF]	0.53		1.40		0.44	0.32		NA	0.33		1.44	
		Left Front	(LF)	0.47		2.00		19.0	0.33		84	0.41		3.74	
Limb Movement	Variables			Normalized	PGRF	Stance time	(sec)	Impulse (sec)	Normalized	AGRF	Step size (cm)	Energy	(1/sec)	P-energy	$(1/\sec^2)$

Figure 12